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AMENDMENT UNDER 37 C.F.R. 1.116  
EXPEDITED PROCEDURE  
EXAMINING GROUP 2178  
PATENT  
Application 10/666,227  
Attorney Docket 2002P15657US01 (1009-040)

AMENDMENTS

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A method comprising the activities of:  
providing an HMI screen navigation editor to a user;  
via the HMI screen navigation editor, enabling the user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;  
responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and a first child node of a plurality of child nodes of said parent node, automatically recursively adjusting a position of said parent node until an adjusted position of said parent node does not create, with respect to each child node of said plurality of child nodes, a determined collision with said child node, said determined collision determined based upon said adjusted position of said parent node and a calculated position of said child node; and  
rendering the collection to the user.
2. (Original) The method of claim 1, further comprising:  
receiving from the user a specification of an HMI root screen node.
3. (Original) The method of claim 1, further comprising:  
receiving from the user a specification of an HMI child screen node, the HMI child screen node a descendent of an HMI root screen node.
4. (Original) The method of claim 1, further comprising:  
receiving from the user, a specification of a relationship between two of the plurality of HMI screen nodes.

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5. (Original) The method of claim 1, further comprising:  
receiving from the user a specification of an organization of the collection.
6. (Original) The method of claim 1, further comprising:  
receiving from the user a specification of a hierarchy of the collection.
7. (Previously Presented) The method of claim 1, further comprising:  
automatically determining an arrangement of the collection.
8. (Original) The method of claim 1, further comprising:  
receiving from the user a specification of a size the plurality of HMI screen nodes.
9. (Original) The method of claim 1, further comprising:  
zooming a rendition of the plurality of HMI screen nodes.
10. (Original) The method of claim 1, further comprising:  
panning a rendition of the plurality of HMI screen nodes.
11. (Original) The method of claim 1, further comprising:  
collapsing a rendition of the plurality of HMI screen nodes.
12. (Original) The method of claim 1, further comprising:  
expanding a rendition of the plurality of HMI screen nodes.
13. (Original) The method of claim 1, further comprising:  
rotating a rendition of the plurality of HMI screen nodes.

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14. (Previously Presented) The method of claim 1, further comprising:  
rendering a portion of the plurality of HMI screen nodes.
15. (Original) The method of claim 1, further comprising:  
enabling the user to revise the collection.
16. (Original) The method of claim 1, further comprising:  
enabling the user to revise at least one of the plurality of HMI screen nodes.
17. (Original) The method of claim 1, further comprising:  
receiving a user specification of an attribute of an HMI screen node.
18. (Original) The method of claim 1, further comprising:  
receiving a user specification of an attribute of the collection.
19. (Previously Presented) The method of claim 1, further comprising:  
receiving from the user a specification of a link between two HMI screen nodes.
20. (Previously Presented) The method of claim 1, further comprising:  
receiving from the user a specification of a link from a first HMI screen node to a second HMI screen node, the second HMI screen node non-familial to the first HMI screen node.
21. (Original) The method of claim 1, further comprising:  
rendering a link between two HMI screen nodes;

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22. (Original) The method of claim 1, further comprising:  
rendering a link from a first HMI screen node to a second HMI screen node, the second HMI screen node non-familial to the first HMI screen node.
23. (Previously Presented) The method of claim 1, further comprising:  
receiving from the user a specification of a navigation control comprising at least one HMI screen link.
24. (Original) The method of claim 1, further comprising:  
rendering a navigation control comprising at least one HMI screen link.
25. (Previously Presented) The method of claim 1, further comprising:  
receiving from the user a specification of a navigation control comprising at least one button.
26. (Original) The method of claim 1, further comprising:  
rendering a navigation control comprising at least one button.
27. (Previously Presented) The method of claim 1, further comprising:  
receiving from the user a specification of a navigation control comprising at least one button, the at least one button comprising an HMI screen link.
28. (Original) The method of claim 1, further comprising:  
rendering a navigation control comprising at least one button, the at least one button comprising an HMI screen link.

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29. (Previously Presented) The method of claim 1, further comprising:  
receiving from the user a specification of a navigation control comprising at least one button, the at least one button comprising an HMI screen link, the at least one button activatable via a user-specified soft key.

30. (Original) The method of claim 1, further comprising:  
rendering a navigation control comprising at least one button, the at least one button comprising an HMI screen link, the at least one button activatable via a user-specified soft key.

31. (Previously Presented) The method of claim 1, further comprising:  
receiving from the user a specification of a navigation control comprising at least one element activatable via a user-specified soft key.

32. (Original) The method of claim 1, further comprising:  
rendering a navigation control comprising at least one element activatable via a user-specified soft key.

33. (Previously Presented) A machine-readable medium containing instructions for activities comprising:  
providing an HMI screen navigation editor to a user;  
via the HMI screen navigation editor, enabling the user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;  
responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and a first child node of a plurality of child nodes of said parent node, automatically recursively adjusting a position of said parent node until an adjusted position of said parent node does not create, with respect to each child node of said plurality of child nodes, a determined collision with

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said child node, said determined collision determined based upon said adjusted position of said parent node and a calculated position of said child node; and rendering the collection to the user.

34. (Previously Presented) A device for providing a representation of user screens for an HMI comprising:
  - an HMI screen navigation editor operatively adapted to:
    - enable a user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;
    - responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and a first child node of a plurality of child nodes of said parent node, automatically recursively adjust a position of said parent node until an adjusted position of said parent node does not create, with respect to each child node of said plurality of child nodes, a determined collision with said child node, said determined collision determined based upon said adjusted position of said parent node and a calculated position of said child node; and render the collection to the user.
35. (Previously Presented) The method of claim 1, further comprising:
  - receiving from the user, a user-drawn relationship indication line between two of the plurality of HMI screen nodes.
36. (Previously Presented) The method of claim 1, further comprising:
  - automatically determining an arrangement of the collection based upon a user specified upper limit on inter-generational spacing.

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37. (Previously Presented) The method of claim 1, further comprising:  
receiving a user specification of an attribute of an HMI screen node, the attribute adapted to change a background color of a screen.
38. (Previously Presented) The method of claim 1, further comprising:  
rendering a navigation control comprising a button adapted to display a previously viewed screen in a sequence of screens.
39. (Previously Presented) The method of claim 1, further comprising:  
rendering a navigation control comprising a button adapted to display a subsequent screen in a sequence of screens.
40. (Previously Presented) A method for configuring HMI user screen navigation comprising the activities of:  
rendering a collection comprising a linked hierarchically organized plurality of HMI screen nodes to a user, said collection created via a provided HMI screen navigation editor, said HMI screen navigation editor adapted to, responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and a child node of a plurality of child nodes of said parent node, automatically recursively adjust a position of said parent node until an adjusted position of said parent node does not create, with respect to each child node of said plurality of child nodes, a determined collision with said child node, said determined collision determined based upon said adjusted position of said parent node and a calculated position of said child node.

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41. (New) The method of claim 40 further comprising:

automatically determining an arrangement of the collection based upon a user specified upper limit on inter-generational spacing between said parent node and said child node.